

Figure 1: Computer System Architecture

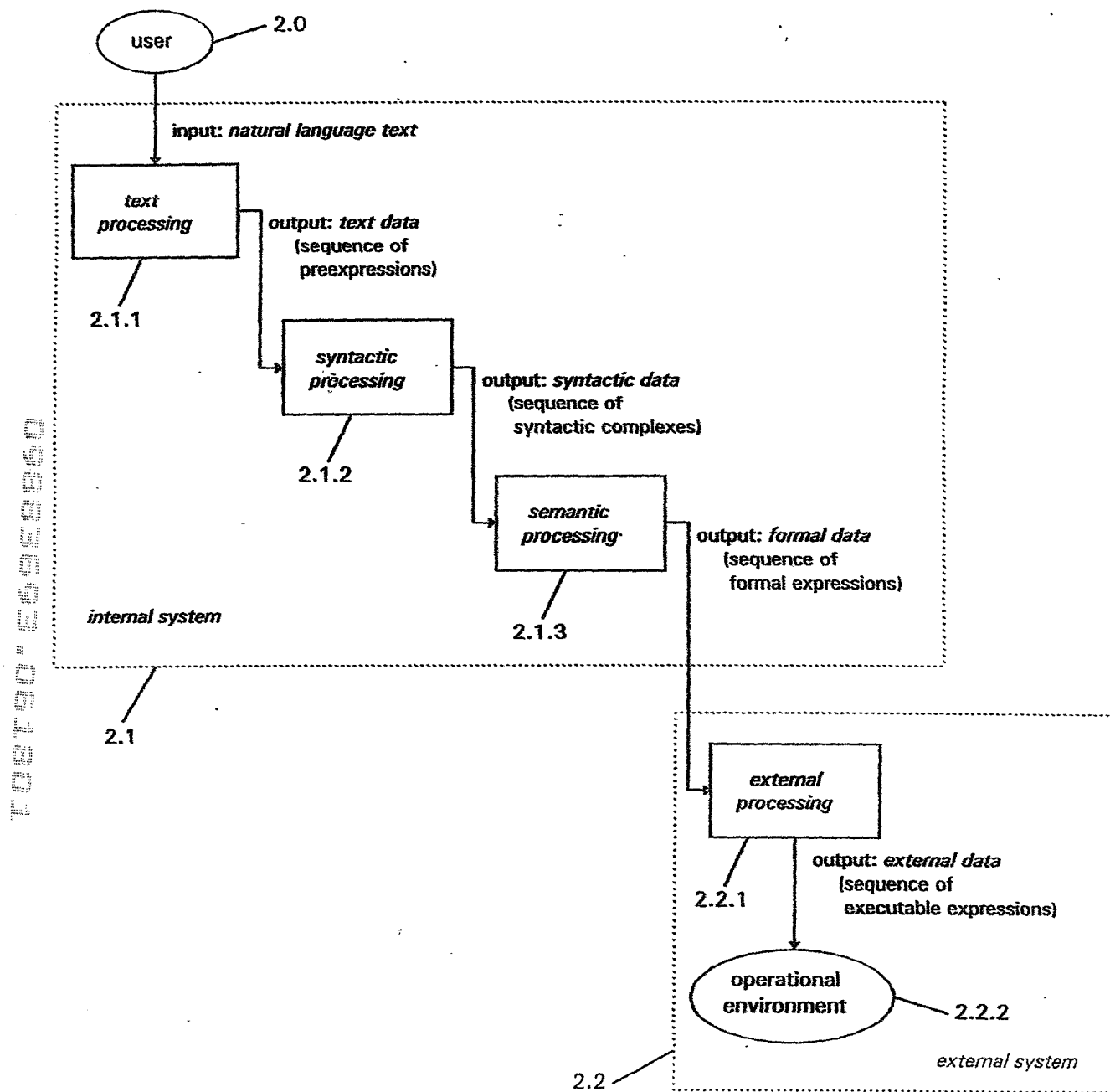


Figure 2: General System Process and Data Flow

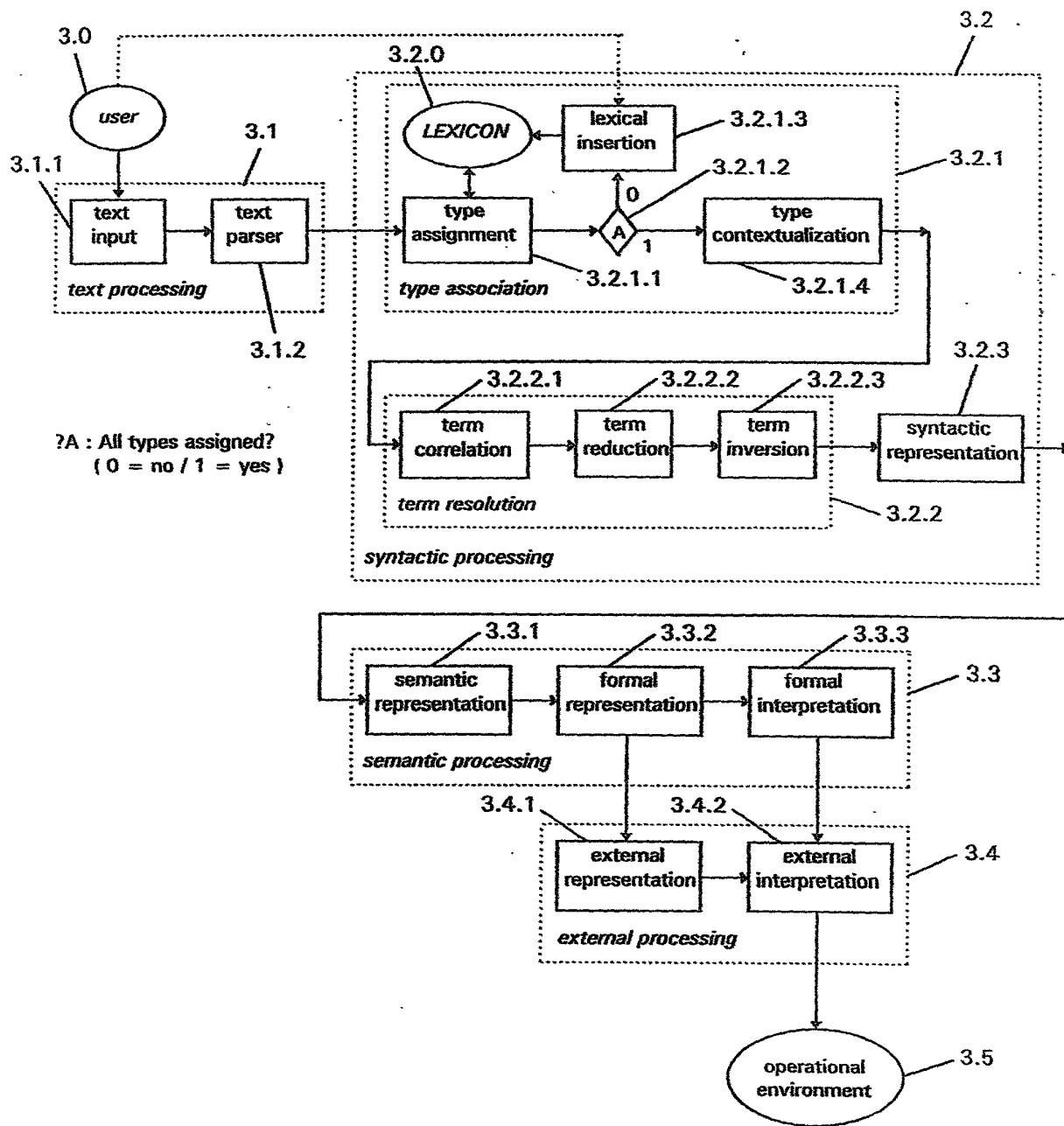


Figure 3: Detailed System Process and Data Flow

0) (send,act) = (send,lextyp(0,send));	act = action
1) (Bob,pnm) = (Bob,lextyp(0,Bob));	pnm = proper name/male
2) (an,adj) = (an,lextyp(0,an));	adj = adjective
3) (email,xao) = (email,lextyp(0,email));	xao = ambiguous action/object
4) (asking,ing) = (asking,lextyp(0,asking));	ing = ambiguous participle/gerund
5) (him,ppm) = (him,lextyp(0,him));	ppm = personal pronoun/male
6) (if,xdc) = (if,lextyp(0,if));	xdc = ambiguous delimiter/conditional
7) (he,ppm) = (he,lextyp(0,he));	ppm = personal pronoun/male
8) (is,sob) = (is,lextyp(0,is));	sob = state-of-being verb
9) (going,ing) = (going,lextyp(0,going));	ing = ambiguous participle/gerund
10) (to,xpi) = (to,lextyp(0,to));	xpi = ambiguous preposition/infinitive
11) (go,act) = (go,lextyp(0,go));	act = action
12) (to,xpi) = (to,lextyp(0,to));	xpi = ambiguous preposition/infinitive
13) (his,psm) = (his,lextyp(0,his));	psm = personal possessive/male
14) (appointment,xom) = (appointment,lextyp(0,appointment));	xom = ambiguous object/modifier
15) (by,prp) = (by,lextyp(0,by));	prp = preposition
16) (himself,prm) = (himself,lextyp(0,himself));	prm = personal reflexive/male
17) (.,trm) = (.,lextyp(0,.));	trm = termination

Figure 4a: Virtual Type Assignment

0) (send,act) = (send,lextyp(0,send));	act = action
1) (Bob,pnm) = (Bob,lextyp(0,Bob));	pnm = proper name/male
2) (an,adj) = (an,lextyp(0,an));	adj = adjective
3) (email,obj) = (email,lextyp(1,email));	obj = object
4) (asking,ptc) = (asking,lextyp(1,asking));	ptc = participle
5) (him,ppm) = (him,lextyp(0,him));	ppm = personal pronoun/male
6) (if,dlp) = (if,lextyp(0,if));	dlp = phrase delimiter
7) (he,ppm) = (he,lextyp(0,he));	ppm = personal pronoun/male
8) (is,sob) = (is,lextyp(0,is));	sob = state-of-being verb
9) (going,ptc) = (going,lextyp(1,going));	ptc = participle
10) (to,inf) = (to,lextyp(2,to));	inf = infinitive
11) (go,act) = (go,lextyp(0,go));	act = action
12) (to,prp) = (to,lextyp(1,to));	prp = preposition
13) (his,psm) = (his,lextyp(0,his));	psm = personal possessive/male
14) (appointment,obj) = (appointment,lextyp(1,appointment));	obj = object
15) (by,prp) = (by,lextyp(0,by));	prp = preposition
16) (himself,prm) = (himself,lextyp(0,himself));	prm = personal reflexive/male
17) (.,trm) = (.,lextyp(0,.));	trm = termination

Figure 4b: Actual Type Assignment

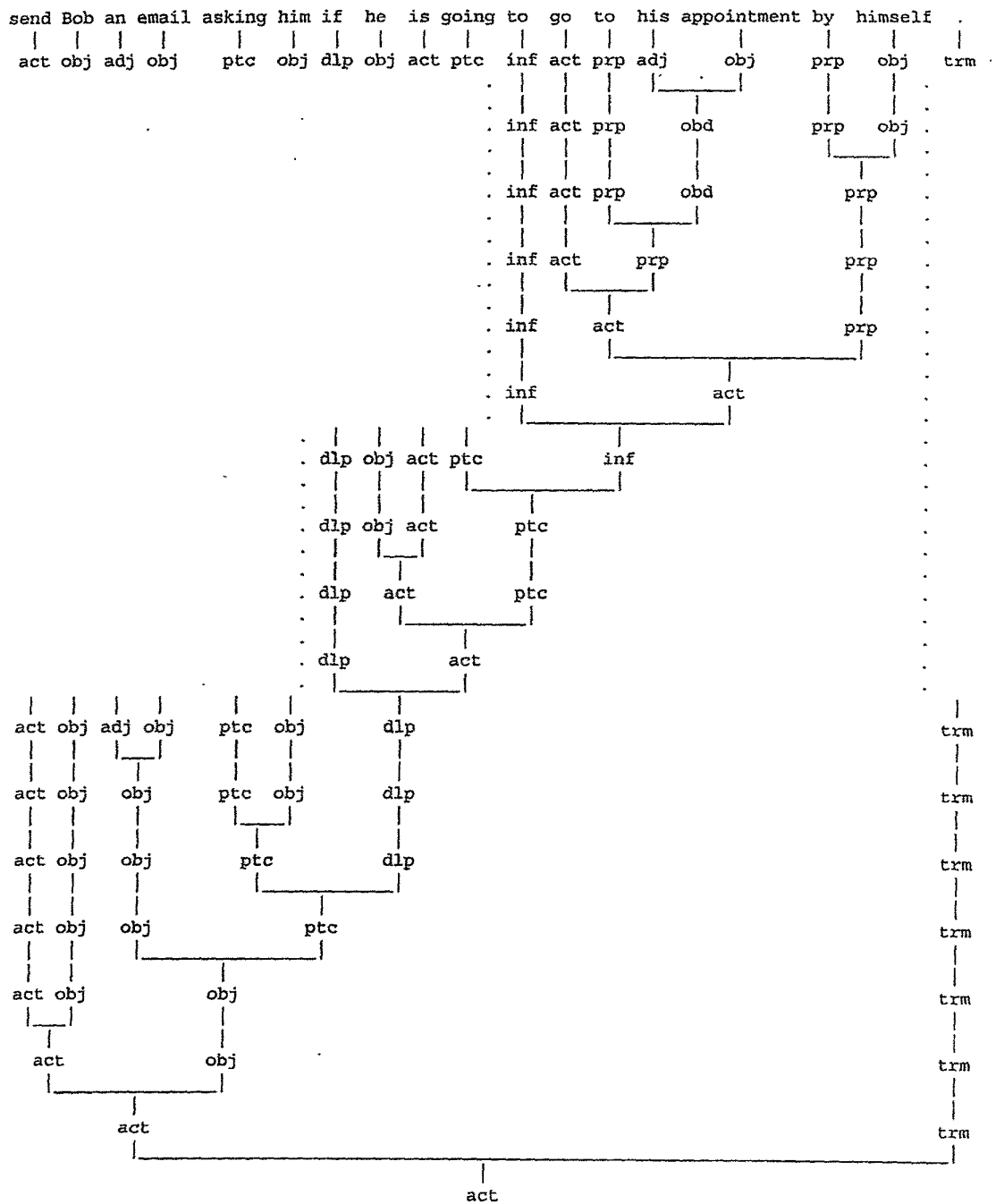


Figure 5: Term Reduction Sequence

- 0) (send,act) → (Bob,obi)
- 1) (send,act) → (email,obd) → (an,adj)
- 2) (send,act) → (email,obd) → (asking,ptc) → (him,obd)
- 3) (send,act) → (email,obd) → (asking,ptc) → (if,dlp) → (is,act) → (he,obs)
- 4) (send,act) → (email,obd) → (asking,ptc) → (if,dlp) → (is,act) → (going,ptc) →
(to,inf) → (go,act) → (to,prp) → (appointment,obp) → (his,adj)
- 5) (send,act) → (email,obd) → (asking,ptc) → (if,dlp) → (is,act) → (going,ptc) →
(to,inf) → (go,act) → (by,prp) → (himself,obp)

Figure 6a: Syntactic Dependency Chains

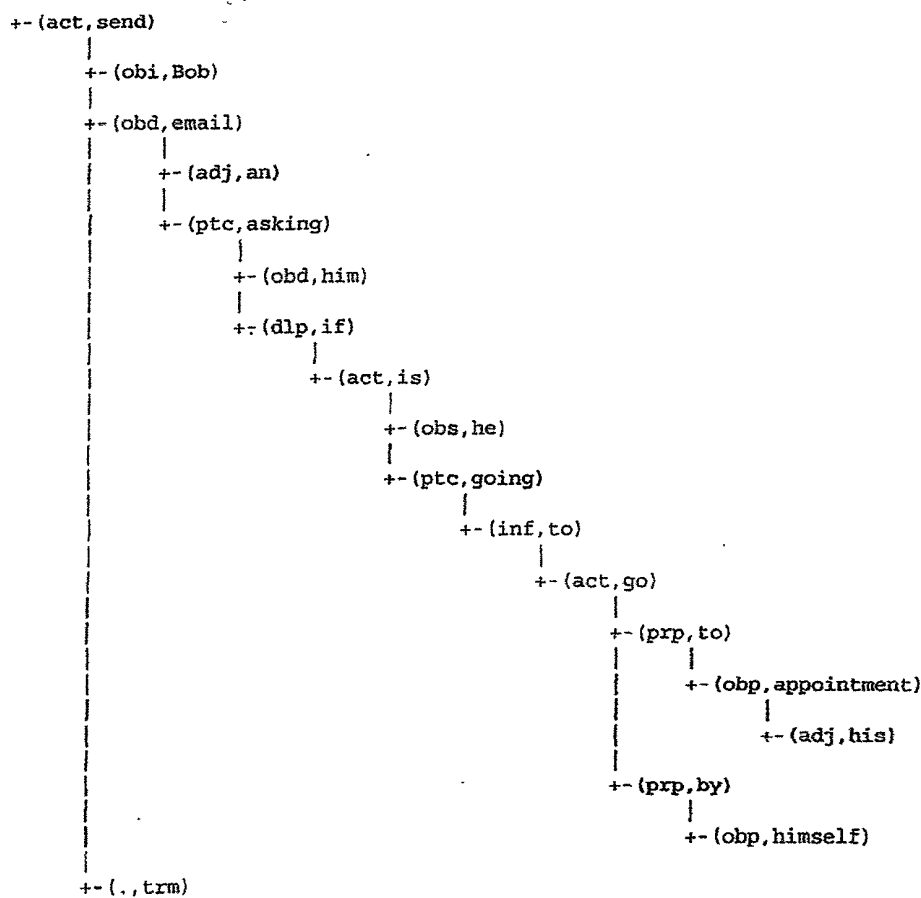


Figure 6b: Syntactic Tree

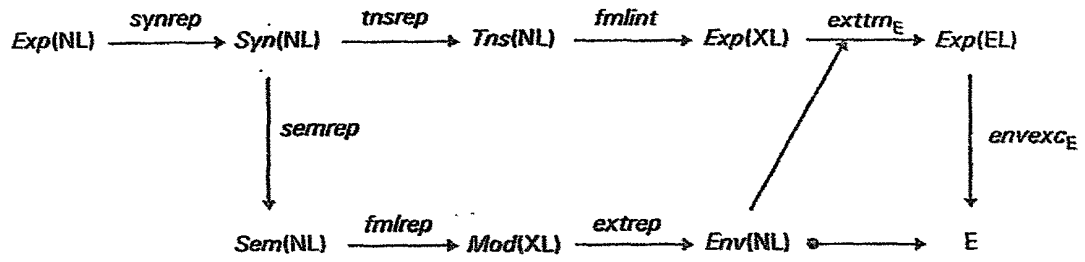


Figure 7a: External Representation / Interpretation Schema

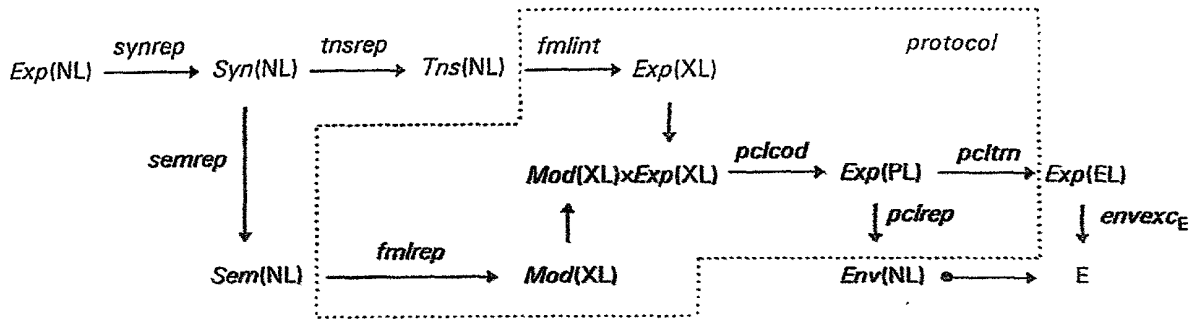


Figure 7b: Protocol Representation / Interpretation Schema